

Analyzing energy flexibility by demand response in a Finnish district heated apartment building

Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 09006, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124609006> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#)

Analyzing power and energy flexibilities by demand response in district heated buildings in Finland and Germany

Ju, Yuchen; Jokisalo, Juha; Kosonen, Risto; Kauppi, Ville; Janßen, Philipp Science and technology for the built environment 2021 / p. 1440-1460 : ill <https://doi.org/10.1080/23744731.2021.1950434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Basic design principles of nZEB buildings in scoping and conceptual design

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Benefits through space heating and thermal storage with demand response control for a district-heated office building

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Cost savings and CO2 emissions reduction potential in the German district heating system with demand response

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Cost-effective heating control approaches by demand response and peak demand limiting in an educational office building with district heating

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Cost-optimal renovation solutions for detached rural houses in Severe cold regions of China

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Coupling of the electricity and district heat generation sectors with building stock energy retrofits as a measure to reduce carbon emissions

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Critical discussion on the challenges of integrating heat pumps in hydronic systems in existing buildings

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Demand response in the German district heating system

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Design of high-performing hybrid ground source heat pump (GSHP) system in an educational building

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Effect of Infector's location and occupants' activity level on airborne spread in a gym – an experimental and CFD study

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Effect of the urban microenvironment on the indoor air temperature of the residential building stock in the Helsinki region

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Emissions and power demand in optimal energy retrofit scenarios of the Finnish building stock by 2050

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Energy, cost and emission saving potential of demand response and peak power limiting in the German district heating system

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Experimental evaluation of IDA ICE and COMSOL models for an asymmetric borehole thermal energy storage field in Nordic climate

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Indoor temperature conditions and energy demand of a Finnish detached house in a changing climate

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Numerical modeling and validation of a large-scale borehole thermal energy storage system in Finland

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Overheating risk and energy demand of nordic old and new apartment buildings during average and extreme weather conditions under a changing climate

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Performance assessment of ventilative and radiant cooling systems in office buildings during extreme weather conditions under a changing climate

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Performance of modern passive stack ventilation in a retrofitted Nordic apartment building

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Risk of microbial growth in ventilation ductwork located in the humid and cold conditions

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Seasonal storage of residential exhaust air and sewage waste heat

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Simulation of demand response on buildings and district heating production

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Simulation of modern passive stack ventilation in a retrofitted Nordic apartment building

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Socio-economic impacts of large-scale deep energy retrofits in Finnish apartment buildings

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Using portable air cleaners to restrict airborne transmission in an open plan office – a field measurement and CFD study

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